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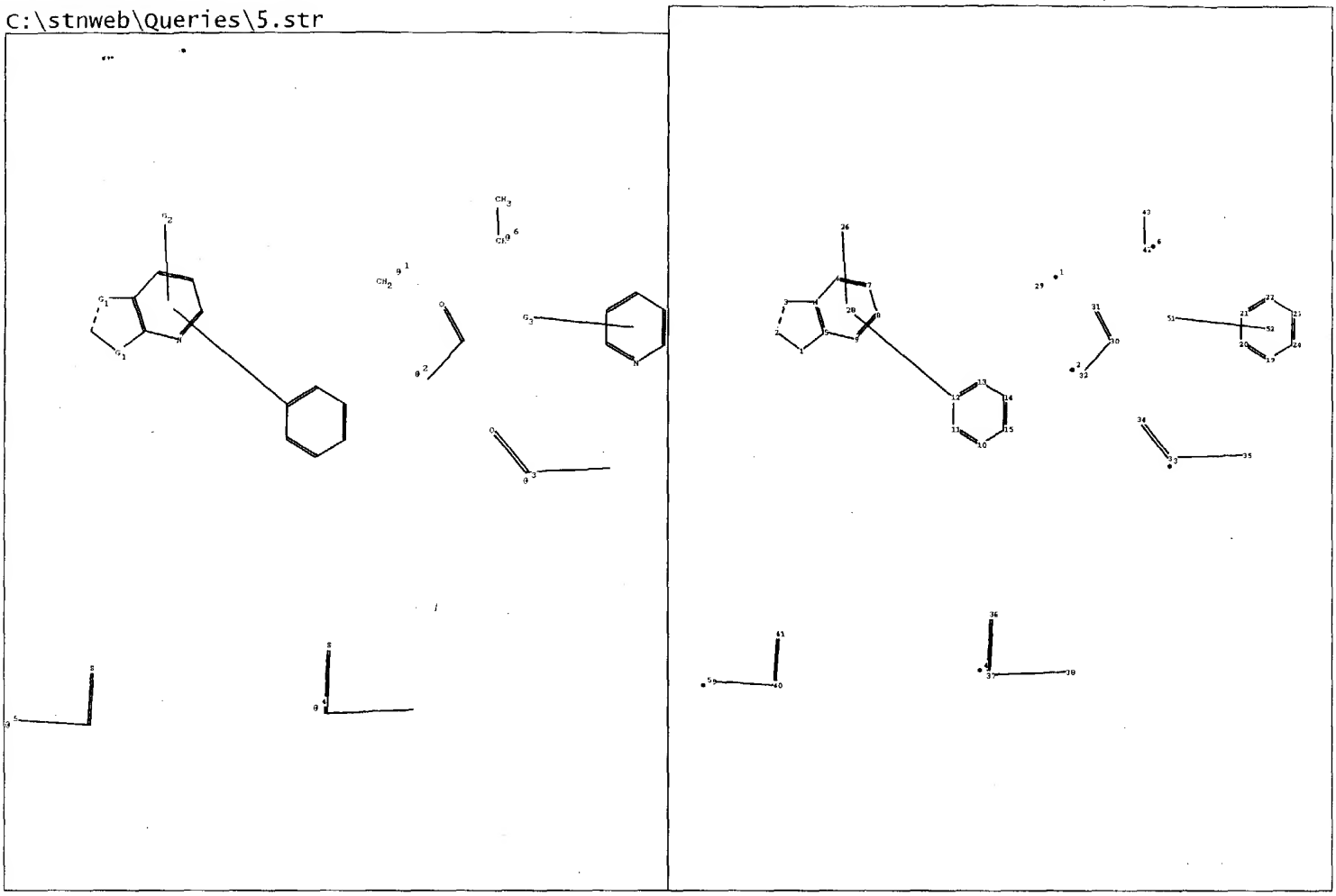

chain nodes :
26 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 51
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 19 20 21 22 23 24
chain bonds :
30-31 30-32 33-34 33-35 36-37 37-38 39-40 40-41 42-43
ring bonds :
1-2 1-5 2-3 3-4 4-5 4-6 5-9 6-7 7-8 8-9 10-11 10-15 11-12 12-13 13-14
14-15 19-20 19-24 20-21 21-22 22-23 23-24
exact/norm bonds :
1-2 1-5 2-3 3-4 30-31 30-32 33-34 33-35 36-37 37-38 39-40 40-41 42-43
normalized bonds :
4-5 4-6 5-9 6-7 7-8 8-9 10-11 10-15 11-12 12-13 13-14 14-15 19-20 19-24
20-21 21-22 22-23 23-24
isolated ring systems :
containing 1 : 19 :

G1:C,S

G2:O,S

G3:[*1],[*2],[*3],[*4],[*5],[*6]

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom
26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS
35:CLASS 36:CLASS 37:CLASS 38:CLASS 39:CLASS 40:CLASS 41:CLASS 42:CLASS 43:CLASS
51:CLASS 52:CLASS

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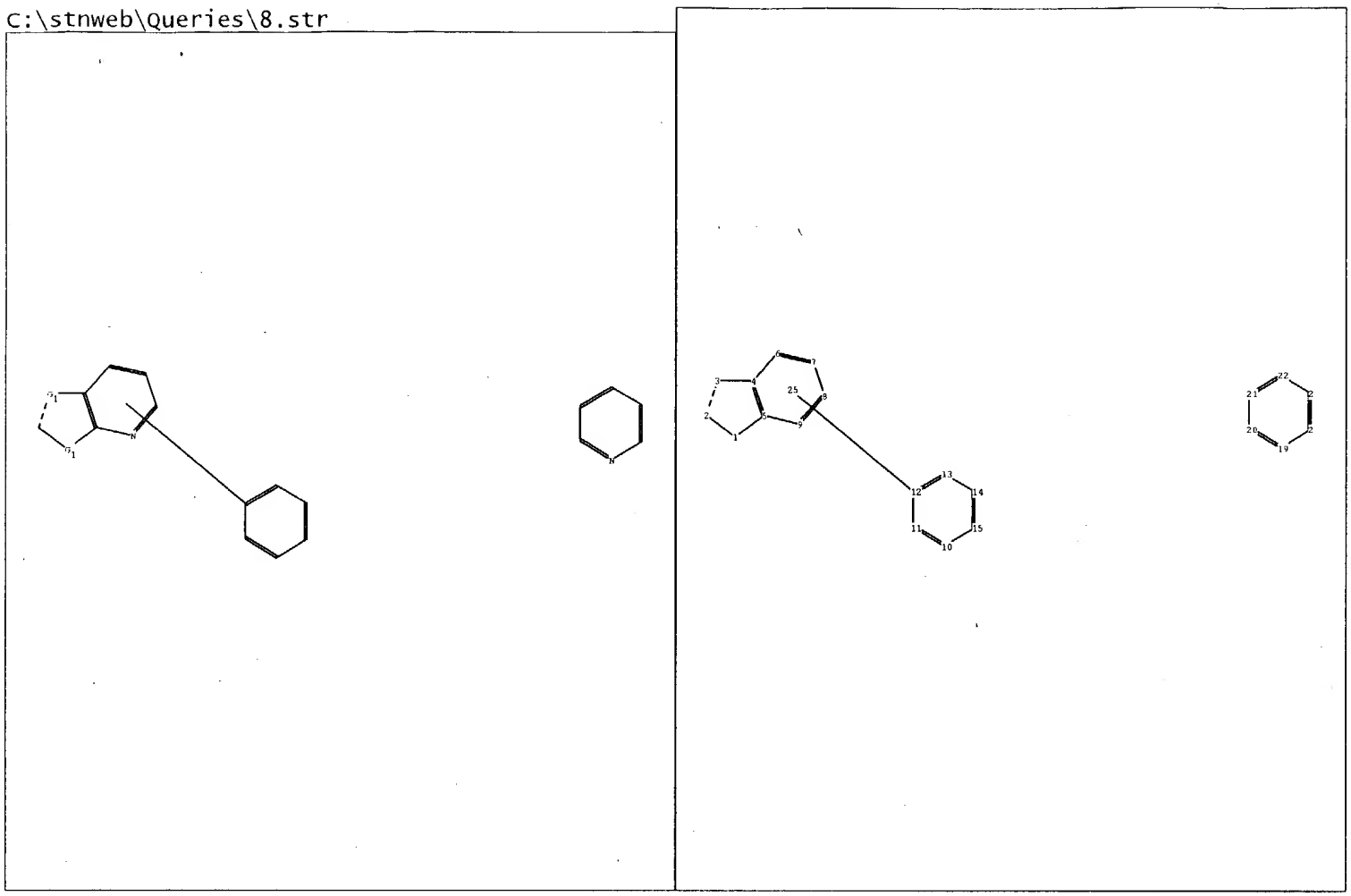

ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 19 20 21 22 23 24
ring bonds :
1-2 1-5 2-3 3-4 4-5 4-6 5-9 6-7 7-8 8-9 10-11 10-15 11-12 12-13 13-14
14-15 19-20 19-24 20-21 21-22 22-23 23-24
exact/norm bonds :
1-2 1-5 2-3 3-4
normalized bonds :
4-5 4-6 5-9 6-7 7-8 8-9 10-11 10-15 11-12 12-13 13-14 14-15 19-20 19-24
20-21 21-22 22-23 23-24
isolated ring systems :
containing 1 : 19 :

G1:C,S

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom
25:CLASS

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* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1            Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2            "Ask CAS" for self-help around the clock
 NEWS  3   May 10   PROUSDDR now available on STN
 NEWS  4   May 19   PROUSDDR: One FREE connect hour, per account, in both May
                    and June 2004
 NEWS  5   May 12   EXTEND option available in structure searching
 NEWS  6   May 12   Polymer links for the POLYLINK command completed in REGISTRY
 NEWS  7   May 17   FRFULL now available on STN
 NEWS  8   May 27   New UPM (Update Code Maximum) field for more efficient patent
                    SDIs in CAplus
 NEWS  9   May 27   CAplus super roles and document types searchable in REGISTRY
 NEWS 10   May 27   Explore APOLLIT with free connect time in June 2004
 NEWS 11   Jun 22   STN Patent Forums to be held July 19-22, 2004
 NEWS 12   Jun 28   Additional enzyme-catalyzed reactions added to CASREACT
 NEWS 13   Jun 28   ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG,
                    and WATER from CSA now available on STN(R)

 NEWS EXPRESS  MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
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 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 15:32:08 ON 02 JUL 2004

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

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STRUCTURE FILE UPDATES:    1 JUL 2004  HIGHEST RN 702626-49-1
DICTIONARY FILE UPDATES:   1 JUL 2004  HIGHEST RN 702626-49-1

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

  Please note that search-term pricing does apply when
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  conducting SmartSELECT searches.

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Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
L1      STRUCTURE UPLOADED

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L1 HAS NO ANSWERS
L1              STR

=> s l1
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SAMPLE SCREEN SEARCH COMPLETED -   6876 TO ITERATE

 14.5% PROCESSED    1000 ITERATIONS                                0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       132550 TO   142490
PROJECTED ANSWERS:               0 TO        0

L2            0 SEA SSS SAM L1

=> s l1 full
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DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 15:39:17 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 136045 TO ITERATE

100.0% PROCESSED  136045 ITERATIONS                              0 ANSWERS
SEARCH TIME: 00.00.01

L3            0 SEA SSS FUL L1

=>
L4      STRUCTURE UPLOADED

=> d l4
L4 HAS NO ANSWERS
L4              STR

=> s l4
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SAMPLE SCREEN SEARCH COMPLETED -   8502 TO ITERATE

 11.8% PROCESSED    1000 ITERATIONS                                0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       164515 TO   175565
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PROJECTED ANSWERS:                0 TO        0

L5             0 SEA SSS SAM L4

=> s l4 full
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DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 15:40:43 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 168583 TO ITERATE

100.0% PROCESSED  168583 ITERATIONS                              14 ANSWERS
SEARCH TIME: 00.00.02

L6             14 SEA SSS FUL L4

=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                     315.88     316.09

FILE 'HCAPLUS' ENTERED AT 15:40:47 ON 02 JUL 2004
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FILE LAST UPDATED: 1 Jul 2004  (20040701/ED)

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L7             6 L6

=> s l7 and cai, g?/au
           746 CAI, G?/AU
L8           0 L7 AND CAI, G?/AU

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            43 ALBAUGH, P?/AU
L9           0 L7 AND ALBAUGH, P?/AU

=> s l7 and yuan, j?/au
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L10          0 L7 AND YUAN, J?/AU

=> d l7, ibib abs fhitstr, 1-6
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L7 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2003:693167 HCAPLUS
DOCUMENT NUMBER: 139:230783
TITLE: Preparation of heteroaryl substituted 2-pyridinyl-6,7,8,9-tetrahydropyrimido[1,2-a]pyrimidin-4-ones and 7-pyridinyl-2,3-dihydroimidazo[1,2-a]pyrimidin-5(1H)ones for treating neurodegenerative disease
INVENTOR(S): Lochhead, Alistair W.; Nedelec, Alain; Saady, Mourad; Yaiche, Philippe
PATENT ASSIGNEE(S): Sanofi-Synthelabo, Fr.; Mitsubishi Pharma Corporation
SOURCE: Eur. Pat. Appl., 25 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1340758	A1	20030903	EP 2002-290485	20020228
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
WO 2003072579	A1	20030904	WO 2003-EP2651	20030226
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: EP 2002-290485 A 20020228
EP 2002-290486 A 20020228
OTHER SOURCE(S): MARPAT 139:230783
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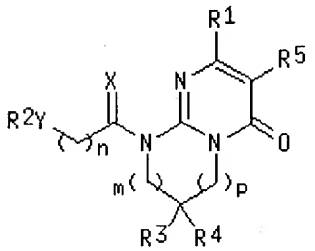


I

AB The title compds. [I; X = H2, S, O, or alkyl and H; Y = a bond, ethenylene, ethynylene or (un)substituted methylene; R1 = (un)substituted 2-, 3- or 4-pyridinyl; R2 = heterocyclic bicyclic ring having 1-4 heteroatoms selected from O, S and N; R3 = H, alkyl, OH, alkoxy, halo; R4 = H, alkyl, alkoxy, halo; R5 = H, alkyl, perhaloalkyl, haloalkyl, halo] which are used for preventive and/or therapeutic treatment of a neurodegenerative disease caused by abnormal activity of GSK3β or

GSK3β and cdk5/p25, such as Alzheimer disease, were prepd. and formulated. E.g., a multi-step synthesis of (+)-(6R)-9-(6,7-dihydro-5H-[1]pyrindin-6-ylmethyl)-7,7-dimethyl-2-(pyridin-4-yl)-6,7,8,9-tetrahydro-pyrimido[1,2-a]pyrimidin-4-one, starting from Et 3-(4-pyridyl)-3-oxopropionate and 5,5-dimethyl-1,4,5,6-tetrahydro-2-pyrimidinamine.HCl, was given. Compds. I inhibited GSK3β with IC50 of 5 nM - 2 μM.

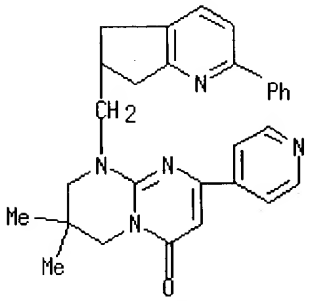
IT **591768-69-3P**

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of heteroaryl substituted pyridinylpyrimidopyrimidinones and pyridinylimidazopyrimidinones for treatment of neurodegenerative disease)

RN 591768-69-3 HCAPLUS

CN 4H-Pyrimido[1,2-a]pyrimidin-4-one, 9-[(6,7-dihydro-2-phenyl-5H-cyclopenta[b]pyridin-6-yl)methyl]-6,7,8,9-tetrahydro-7,7-dimethyl-2-(4-pyridinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1999:547305 HCAPLUS
DOCUMENT NUMBER: 131:295109
TITLE: Derivatives of 3-cyano-6-phenyl-4-(3'-pyridyl)-pyridine-2(1H)-thione and their neurotropic activity
AUTHOR(S): Krauze, Aivars; Germane, Skaidrite; Eberlins, Ojars; Sturms, Igors; Klusa, Vija; Duburs, Gunars
CORPORATE SOURCE: Latvian Institute of Organic Synthesis, Riga, LV-1006, Latvia
SOURCE: European Journal of Medicinal Chemistry (1999), 34(4), 301-310
CODEN: EJMCA5; ISSN: 0223-5234
PUBLISHER: Editions Scientifiques et Medicales Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

AB 3-Cyano-6-phenyl-4-(3'-pyridyl)pyridine-2(1H)-thione, the related 2,2'-bis-pyridyldisulfide, 2-alkylthiopyridines and 2-amino-thieno[2,3-b]pyridines were synthesized and their neurotropic activities were examd. Bispyridyldisulfide exhibited low toxicity (LD50 > 5000 mg/kg, ICR mice, i.p.) and selective antiamnesic activity at the doses of 0.05-0.5 mg/kg p.o. This effect was significantly higher than that induced by Piracetam at 50 mg/kg.

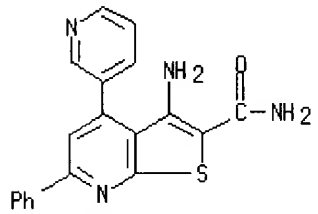
IT **151058-46-7P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and neurotropic activity of 3-cyano-6-phenyl-4-(3'-pyridyl)-pyridine-2(1H)-thione derivs.)

RN 151058-46-7 HCAPLUS

CN Thieno[2,3-b]pyridine-2-carboxamide, 3-amino-6-phenyl-4-(3-pyridinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1995:873707 HCAPLUS

DOCUMENT NUMBER: 123:289564

TITLE: Heterocyclic monoazo dyes derived from 3-cyano-2(1H)-pyridinethiones. Part 1. 3-(Aryl or hetaryl)azo-thieno[2,3-b]pyridine derivatives

AUTHOR(S): Ho, Yuh Wen; Wang, Ing Jing

CORPORATE SOURCE: Dep. Textile Polymer Eng., National Taiwan Inst. Technology, Taipei, Taiwan

SOURCE: Dyes and Pigments (1995), 29(2), 117-29
CODEN: DYPIDX; ISSN: 0143-7208

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

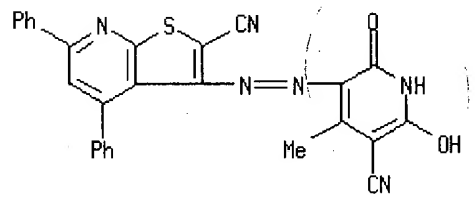
AB The reaction of cyanothioacetamide with appropriate ketones afforded 2-cyano-4,6-disubstituted-2(1H)-pyridinethiones. 3-Amino-2-cyano-4,6-disubstituted-thieno[2,3-b]pyridines were synthesized by cyclization of 3-cyano-4,6-disubstituted-2(1H)-pyridinethiones with chloroacetonitrile. The 3-amino-thieno[2,3-b]pyridine derivs. were diazotized and coupled with a variety of coupling components to give new azo dyes. The dyes were applied to polyester; their spectral and dyeing properties are reported.

IT **169786-02-1P**

RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(dye; prepn. and fastness of monoazo dyes based on 3-(aryl or hetaryl)azo-thieno[2,3-b]pyridine derivs. for polyester fibers)

RN 169786-02-1 HCAPLUS

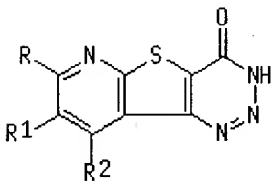
CN Thieno[2,3-b]pyridine-2-carbonitrile, 3-[(5-cyano-1,2-dihydro-6-hydroxy-4-methyl-2-oxo-3-pyridinyl)azo]-4,6-diphenyl- (9CI) (CA INDEX NAME)



L7 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1993:671114 HCAPLUS
DOCUMENT NUMBER: 119:271114
TITLE: Synthesis of some new pyrido[3',2':4,5]thieno[3,2-d]1,2,3-triazines with antianaphylactic activity
AUTHOR(S): Wagner, G.; Leistner, S.; Vieweg, H.; Krasselt, U.; Prantz, J.
CORPORATE SOURCE: Fachbereich Biowiss., Univ. Leipzig, Germany
SOURCE: Pharmazie (1993), 48(7), 514-18
CODEN: PHARAT; ISSN: 0031-7144
DOCUMENT TYPE: Journal
LANGUAGE: German
GI



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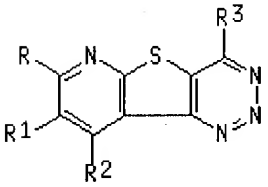
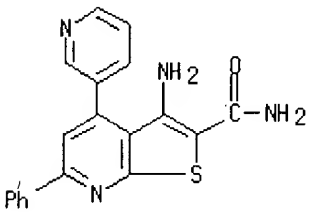


III

AB Some new pyridothienotriazinones I (R = Me, Ph, 4-ClC6H4, 4-BrC6H4, 2-furyl, 2-naphthyl; R1 = H, Me, CH2Ph, CH2C6H4CN-4; R2 = Ph, Me, 4-ClC6H4, pyridyl, CONH2, CONHBu, CONHCH2CH2OH, piperidinocarbonyl, CO2Et, CO2H, 4-BrC6H4) were synthesized from 2-thioxo-1,2-dihydropyridine-3-carbonitriles (II) via 3-amino-thieno[3,2-b]pyridine-2-carboxamides. II were converted to 3-amino-thieno[2,3-b]pyridine-2-carbonitriles which yielded the pyridothienotriazines III (R = Ph, Me; R1 = H, Me, CH2Ph, CH2C6H4CN-4; R2 = pyridyl, 4-ClC6H4, CONHBu; R3 = piperidino, NHNH2, NHCH2CH2NMe2, NHCH2CH2OH, NHBu, NHCH2CH2NET2, NHCH2C6H4Cl-2) via III (R3 = Cl). I (R-R2 = Me; R = Me, R1 = H, R2 = 3-, 4-pyridyl) and III (R = Me, R1 = H, R2 = CONHBu, R3 = NHBu) showed respectable antianaphylactic activity.

IT **151058-46-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(intermediate in prepn. of antianaphylactic pyridothienotriazines)

RN 151058-46-7 HCAPLUS
CN Thieno[2,3-b]pyridine-2-carboxamide, 3-amino-6-phenyl-4-(3-pyridinyl)-(9CI) (CA INDEX NAME)



L7 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1993:38791 HCAPLUS
DOCUMENT NUMBER: 118:38791
TITLE: Synthesis, properties, and cardiotonic activity of 2-carbamoylmethylthio-6-phenyl-5-ethoxycarbonyl-3-cyclo-4-(pyrido-3'yl)pyridine derivatives and their hydrogenated analogs
AUTHOR(S): Krauze, A.; Garalene, V.; Duburs, G.
CORPORATE SOURCE: Inst. Org. Synth., Riga, Latvia
SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1992), 26(5), 40-3
CODEN: KHFZAN; ISSN: 0023-1134
DOCUMENT TYPE: Journal
LANGUAGE: Russian
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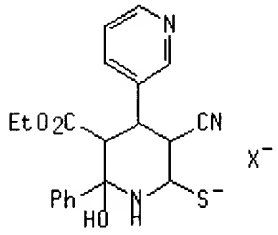

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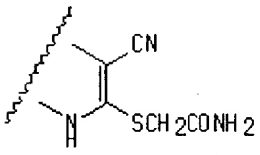

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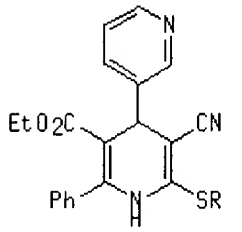

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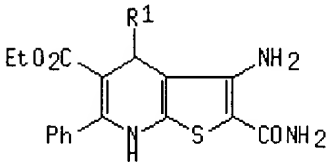
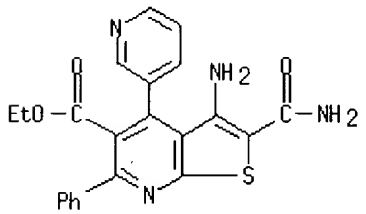


IV

AB Cyclocondensation of PhCOCH2CO2Et with 2-cyano-3-pyridinethioacrylamide in the presence of bases gave pyridinecarboxylates I (X+ = piperidino, Na) which when treated with ICH2CONH2 gave 82% amide II; betaine III (R = H) similarly treated gave amide III (R = CH2CONH2) which underwent base-catalyzed cyclization to give thienopyridine IV (R1 = 3-pyridyl). Addnl. obtained was IV (R1 = Ph). The 4,3'-bipyridines show dual activity-neg. inotropic action at low concns. and pos. inotropic activity at concns. >10-5M.

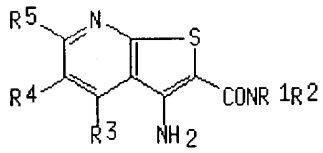
IT **144969-94-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 144969-94-8 HCAPLUS
CN Thieno[2,3-b]pyridine-5-carboxylic acid, 3-amino-2-(aminocarbonyl)-6-phenyl-4-(3-pyridinyl)-, ethyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

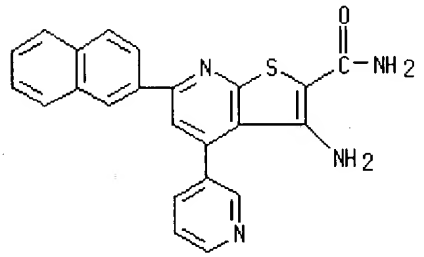
ACCESSION NUMBER: 1990:515227 HCAPLUS
DOCUMENT NUMBER: 113:115227
TITLE: Polycyclic pyridines. Part 8. Synthesis of new primary, secondary and tertiary 3-aminothieno[2,3-b]pyridine-2-carboxamides by different pathways
AUTHOR(S): Wagner, G.; Vieweg, H.; Leistner, S.; Boehm, N.; Krasselt, U.; Hanfeld, Vera; Prantz, J.; Grupe, Renate
CORPORATE SOURCE: Sekt. Biowiss., Karl-Marx-Univ., Leipzig, DDR-7010, Ger. Dem. Rep.
SOURCE: Pharmazie (1990), 45(2), 102-9
CODEN: PHARAT; ISSN: 0031-7144
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 113:115227
GI



I

AB The treatment of 2-thioxo-1,2-dihydropyridine-3-carbonitriles with ClCH2CO2NR1R3 (R1, R2 = H, Me, Et) gave 3-aminothieno[2,3-b]pyridinecarboxylic acid amides I [R1 = H, Et, Me; R2 = H, Et, Bu, cyclohexyl, CH2CH2OH, CH2CO2H; R1R2 = (CH2)5; R3 = Me, Ph, 4-BrC6H4, 3-pyridyl, CONH2, etc; R4 = H, Me, CH2C6H4(CN)-4; R5 = Me, C6H4Cl-4, Ph, C6H4Br-4, furyl, naphthyl, OH). Some of the compds. thus prepd., e.g. I (R1 = R2 = R4 = H, R3 = Me, R5 = Ph) and I (R1 = R4 = H, R2 = CH2CH2OH, R3 = R5 = Me) showed activity as antiallergics in the passive cutaneous anaphylaxis test in rats.

IT **128918-03-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 128918-03-6 HCAPLUS
CN Thieno[2,3-b]pyridine-2-carboxamide, 3-amino-6-(2-naphthalenyl)-4-(3-pyridinyl)- (9CI) (CA INDEX NAME)



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L9            0 S L7 AND ALBAUGH, P?/AU
L10           0 S L7 AND YUAN, J?/AU

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